# Translation

#### PATENT COOPERATION TREATY



### **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference IH-146	FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No.	International filing d		Priority date (day/month/year)				
PCT/JP2003/013785		03 (28.10.2003)	31 October 2002 (31.10.2002)				
International Patent Classification (IPC) or n A01N 43/40, C07D 213/61, 213/	ational classification a /64, 213/65, 213/69,	nd IPC 213/70					
Applicant ISHIHARA SANGYO KAISHA, LTD.							
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>							
2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
	3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and	to the International Bi	ureau) a total of	sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes							
beyond the disclo Supplemental Box	sure in the internation	al application as filed,	as indicated in item 4 of Box No. I and the				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relat	ting to the following ite	ems:					
Box No. I Basis of the re	port						
Box No. II Priority							
Box No. III Non-establish	nent of opinion with re	egard to novelty, invent	tive step and industrial applicability				
Box No. IV Lack of unity	of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain docum							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observ	Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report					
09 April 2004 (09.04.2	(004)	_	ectober 2004 (06.10.2004)				
Name and mailing address of the IPEA/JP	···	Authorized officer					
Facsimile No.	:	Telephone No.					



#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

#### PCT/JP2003/013785

Box No.	I	Basis of the report					
1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.							
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:						
	international search (under Rules 12.3 and 23.1(b))						
	publication of the international application (under Rule 12.4)						
1		international preliminary examination (under Rules 55.2 and/or 55.3)					
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
		international application as originally filed/furnished					
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	pages	, as originary mountainshou					
	pages						
		laims:					
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	page	s* received by this Authority on					
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		rawings:					
	page	, as originary modification					
	page						
	a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	The a	amendments have resulted in the cancellation of:					
	$\Box$	the description, pages					
	H	the claims, Nos.					
	Ħ	the drawings, sheets/figs					
	H						
	the sequence listing (specify):						
İ	ш	any table(s) related to sequence listing (specify):					
4.	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendments annexed to this report and listed below had not been established as if (some of) the amendment annexed to the solution and listed below had not been established as if (some of) the amendment and listed below had not been established as if (some of) the amendment annexed to the solution and listed below had not been established as if (some of) the amendment annexed to the solution and listed below had not been established as if (some of) the amendment and listed below had not been established as if (some of) the amendment and listed below had not been established as if (some of) the amendment and listed below had not been established as if (some of) the amendment and listed below had not been established as if (some of) the amendment and listed below had not been established as if (some of) the amendment and listed below had					
1		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
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* If item 4 applies, some or all of those sheets may be marked "superseded."							

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP 03/13785

YES

NO

1-3

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	2	YES			
		Claims	1, 3	NO			
	Inventive step (IS)	Claims		YES			
		Claims	1-3	NO			

2. Citations and explanations

Industrial applicability (IA)

Document 1: WO 02/2527 A1 (Ishihara Sangyo Kaisha, Ltd.), 10 January 2002, claims and tables 1-4, 12, 13, 19-22, 30 and 31

Claims

Claims

The inventions that are set forth in claims 1 and 3 lack novelty in the light of document 1 cited in the international search report.

In addition, the inventions that are set forth in claims 1 to 3 do not involve an inventive step in the light of document 1.

Document 1 discloses the feature of using benzoyl pyridine derivatives that are represented by formula (I) as bactericidal agents, and also discloses phenyl pyridyl methanols represented by formula (X), which are production intermediates for the abovementioned compounds. In addition, the compounds that are set forth in claims 1 and 2 of the present application are included within the scope of the abovementioned formula (I), with compound 158 from table 12 specifically corresponding to 3-(2, 3, 4-trimethoxy-6-methylbenzoyl)-5-chloro-2-methoxy-4-methyl pyridine; as a result, the disclosure in question equates to the disclosure of bactericidal agents that comprise the abovementioned compound, as well as intermediates therefor.

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Furthermore, the abovementioned portions of the table present compounds that are represented by formulas (I-1), (I-6) and (I-7), wherein position 6 of the phenyl group is a methyl group and positions 2, 3 and 4 are methoxy groups. Therein, with regards to the substituent groups for the pyridyl groups in the compounds in question, other than the abovementioned compound 158 document 1 also discloses compounds such as compounds 43, 49, 55, 56, 85, 140, 141, 150, 155, 156, 159, 161, 162, 164, 165, 168, 169, 181 and 182, which only differ from the compounds that are set forth in claims 1 and 2 of the present application according to the sites of the substitutions and the type of halogen, and it would be easy for a person skilled in the art to conceive of changing the sites of the substitutions or the type of halogen in the compounds in question. In addition, the abovementioned table presents various compounds that comprise combinations of trifluoromethyl groups, methoxy groups, alkyl groups and halogen groups; therefore, it would be easy for a person skilled in the art to conceive of combining these groups, as appropriate. Furthermore, the compounds that are set forth in claims 1 to 3 cannot be said to exhibit an especially prominent effect in comparison to the other compounds that are disclosed in document 1.